15-Methylhentriacontane

Other names: 15-methylhentriecontane
Inchi: InChI=1S/C32H66/c1-4-6-8-10-12-14-16-18-19-21-23-25-27-29-31-32(3)30-28-26-24-22-
InchiKey: UPXMLPKPQMWALZ-UHFFFAOYSA-N
Formula: C32H66
SMILES: CCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCC
Mol. weight [g/mol]: 450.87

Physical Properties

Property code	Value	Unit	Source
gf	216.12	kJ/mol	Joback Method
hf	-709.09	kJ/mol	Joback Method
hfus	75.11	kJ/mol	Joback Method
hvap	86.44	kJ/mol	Joback Method
log10ws	-12.98		Crippen Method
logp	12.585		Crippen Method
mcvol	461.740	ml/mol	McGowan Method
pc	545.39	kPa	Joback Method
rinpol	3132.00		NIST Webbook
rinpol	3127.00		NIST Webbook
rinpol	3130.00		NIST Webbook
rinpol	3132.00		NIST Webbook
rinpol	3135.00		NIST Webbook
rinpol	3131.00		NIST Webbook
rinpol	3121.00		NIST Webbook
rinpol	3132.00		NIST Webbook
rinpol	3130.00		NIST Webbook
rinpol	3132.00		NIST Webbook
rinpol	3126.00		NIST Webbook
rinpol	3131.00		NIST Webbook
rinpol	3130.00		NIST Webbook
rinpol	3130.00		NIST Webbook
rinpol	3134.00		NIST Webbook
rinpol	3135.00		NIST Webbook
rinpol	3132.00		NIST Webbook
rinpol	3133.00		NIST Webbook
tb	931.12	K	Joback Method
tc	1155.67	K	Joback Method

tf	435.40	K	Joback Method
vc	1.821	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1618.39	J/mol×K	931.12	Joback Method
cpg	1747.56	J/mol×K	1118.25	Joback Method
cpg	1724.89	J/mol×K	1080.82	Joback Method
cpg	1700.75	J/mol×K	1043.40	Joback Method
cpg	1675.03	J/mol×K	1005.97	Joback Method
cpg	1647.62	J/mol×K	968.55	Joback Method
cpg	1768.88	J/mol×K	1155.67	Joback Method
dvisc	0.0000163	Pa×s	931.12	Joback Method
dvisc	0.0000232	Pa×s	848.50	Joback Method
dvisc	0.0000356	Pa×s	765.88	Joback Method
dvisc	0.0000605	Pa×s	683.26	Joback Method
dvisc	0.0001190	Pa×s	600.64	Joback Method
dvisc	0.0002905	Pa×s	518.02	Joback Method
dvisc	0.0009952	Pa×s	435.40	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R261528&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions

hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume